# **ATS TRACKER**

# **REQUIREMENTS:**

1. Create an environment:

python -m venv ats

1. Activating it.

ats\Scripts\activate

1. Installing libraries
2. requirements.txt

streamlit

google-generativeai

python-dotenv

pdf2image

pymupdf

pip install -r requirements.

# **FUNCTIONALITIES**

1. Field to put my Job Description
2. Upload PDF
3. Pdf to image→ processing→ Google Gemini Pro
4. Prompts Template[Multiple Prompts]

# **INSIDE .ENV**

1. [Get API key | Google AI Studio](https://aistudio.google.com/app/apikey)
2. Create api key and include it in .env file.

# **STEPS:**

1. User Interaction:
   * Prompt the user to upload a PDF file and provide a job description.
   * Receive the uploaded PDF file and job description input from the user.
2. PDF Processing:
   * Read the content of the uploaded PDF file.
   * Extract the first page of the PDF document.
   * Convert the first page to a JPEG image format.
3. Base64 Encoding:
   * Encode the JPEG image data into Base64 format.
   * Convert the binary image data into a string of ASCII characters using Base64 encoding.
4. Storage Preparation:
   * Prepare the encoded image data to be stored for further processing.
   * Construct a data structure (pdf\_parts) to store the MIME type and Base64-encoded image data.
5. Further Processing:
   * Optionally, perform additional processing on the encoded image data or the job description input.
   * This could involve using external APIs, machine learning models, or other processing methods.
   * Here we are using Google’s Gemini Pro Vision LLM Model
6. Output:
   * Display the processed output to the user.
   * This could include displaying the response generated from further processing or informing the user that the PDF upload was successful.

# **PROMPT TEMPLATES:**

1. Tell me about the resume
2. How can I improvise my skills
3. What are the keywords that are missing
4. Percentage match

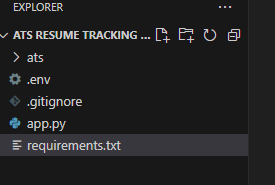
# **DOWNLOADS**

1. [oschwartz10612/poppler-windows: Download Poppler binaries packaged for Windows with dependencies (github.com)](https://github.com/oschwartz10612/poppler-windows)

# **SETTING UP ENV VARIABLES[IF PDF2IMAGE IS USED]**

1. Create a poppler folder in ProgramfilesX86 and copy the extracted contents of the zip file.
2. Go to library -> bin -> copy the path
3. Set the environment variables -> system variables -> Path -> Edit -> New -> Ok
4. The above procedure is only when ur project is in C drive
5. In D drive just create a folder named poppler directly and copy the extracted contents of the zip file.

# **Structure**

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# **RUN THE APP**

streamlit run app.py

# **BASE-64**

**ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/**

1. **byte values are grouped into blocks of three bytes. Each block consists of 24 bits (8 bits per byte).**
2. **Each block of 24 bits is split into four groups of 6 bits each. These groups are represented as integers ranging from 0 to 63.**
3. **Each of these integers corresponds to an index in the Base64 character set, which includes 64 characters (A-Z, a-z, 0-9, '+', and '/'). The index determines the character to represent the 6-bit group.**
4. **The resulting characters are concatenated together to form the Base64 encoded string.**